



Image may differ from product. See technical specification for details.

GE 90 ES

Radial spherical plain bearing, requiring maintenance, metric sizes

Radial spherical plain bearings are designed to accommodate radial and combined radial and axial loads, and also misalignment. This specific design includes a steel/steel sliding contact surface combination. The bearings require maintenance and can be relubricated via lubrication holes and an annular groove in both rings.

- Designed for radial and combined radial and axial loads
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	90 mm
	70 11111
Outside diameter	130 mm
Width, inner ring	60 mm
Width, outer ring	50 mm

Performance

Basic dynamic load rating	490 kN
Basic static load rating	2 450 kN

Properties

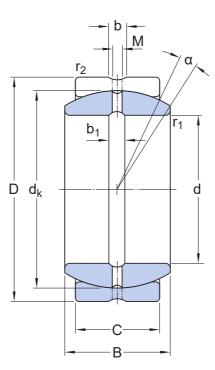
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Without
Relubrication feature	With

Logistics

Product net weight	2.69 kg
eClass code	23-05-01-06
UNSPSC code	31171515

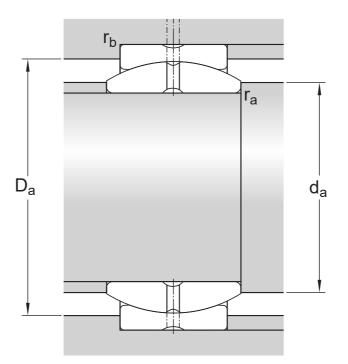
Technical specification

Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without



Dimensions

d	90 mm	Bore diameter
D	130 mm	Outside diameter
В	60 mm	Width
С	50 mm	Width outer ring
α	5°	Angle of tilt
d _k	115 mm	Raceway diameter inner ring
b	9.5 mm	Width annular lubrication groove at outer ring
b ₁	9.5 mm	Width annular lubrication groove at inner ring
М	5 mm	Diameter lubrication hole (outer ring)
rı	min. 1 mm	Chamfer dimension bore
r ₂	min. 1 mm	Chamfer dimension outer ring



Abutment dimensions

d _a	min. 97.4 mm	Abutment diameter shaft
d _a	max. 98.1 mm	Abutment diameter shaft
D _a	min. 109.3 mm	Abutment diameter housing
D _a	max. 123.5 mm	Abutment diameter housing
٢ _a	max. 1 mm	Fillet radius shaft
r _b	max. 1 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	490 kN
Basic static load rating	C ₀	2 450 kN
Specific dynamic load factor	К	100 N/mm ²
Specific static load factor	K ₀	500 N/mm ²
Material constant	K _M	330

Tolerances and clearances

• General bearing specifications

RADIAL LOCATION OF BEARINGS

• Recommended fits

More Information

Product details	Engineering information	interview American Am
Radial spherical plain bearings requiring maintenance Maintenance-free radial spherical plain bearings General bearing specifications Temperature limits	Principles of selection	SKF Product select Heater selection tool



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